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UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Administration  
Bureau of Entomology and Plant Quarantine  
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STATEMENT ON 1948 JAPANESE BEETLE COLLECTIONS AND PROPOSED 1949 QUARANTINE PROGRAM

As disclosed by 1948 trap-scouting and inspections for Japanese beetles in non-regulated territory, the over-all situation is relatively unchanged, except for the discovery of a rather general occurrence of the beetle in southeastern Virginia.

A rather detailed report of the results of operations during the 1948 season is attached. This report gives the results of trapping and scouting in cities, towns, plant-growing establishments and airfields in sections of the United States outside of areas under Federal quarantine regulation during 1948, and includes a summary of all collections of beetles made during the last five years in these sections. It also indicates the localities where treatments have been made, including those proposed but not yet completed, following the discoveries of the 1948 season.

All of the continuous infestations and many of the isolated infested areas are under Federal regulation. Important isolated, infested areas are regulated by State quarantines, patterned after the Federal regulations. Enforcement of the State regulations is under Federal supervision.

At isolated areas where beetles were collected in significant numbers during the 1948 season cooperative suppressive programs have been continued or inaugurated. These control measures included both soil treatment and foliage treatment, and are believed to be adequate to prevent such areas from becoming centers of spread. Following collection of beetles in 1948, DDT and lead arsenate soil treatments have been applied to 1,050 acres in 26 localities in 7 states. The cooperative application of soil treatments at isolated points of infestation continues to be an effective means of reducing and holding beetle populations to non-hazardous levels. Inspections and trapping at Detroit, Michigan, in 1948 resulted in the collection of only 96 beetles. More than 3,000 beetles were found there in 1947. Foliage treatments were applied immediately following collection in 1947, and soil treatments with lead arsenate were made in the fall of 1947. Foliage treatments were applied where beetles were collected this year.

During 1948 more intensive and extensive use has been made of mist blowers and other applicators to treat foliage with DDT insecticides in areas where beetles were collected outside the regulated areas. Initial and repeat foliage treatments were made in 57 localities outside of Federal regulated areas in cooperation with officials of six states. Plans have already been made for the continuation of these treatments on a cooperative basis during 1949, and the work will be expanded if possible.

The coordinated cooperative program conducted to retard the spread of the Japanese beetle outlined in some detail in previous reports has been continued in 1948 and is the basis for the program proposed for 1949. The practices followed under this program provide, with the means available, more effective protection of uninfested areas than would be attained by extension of the Federal quarantine alone. It provides a satisfactory basis for stimulating cooperative effort to combat the beetles and gives protection from natural spread and appropriate safeguards on the movement of commodities which may carry the pest.

The State of Virginia has revised its State Japanese beetle quarantine to include territory intervening between its previously isolated Norfolk, Richmond, and northern Virginia regulated areas. Another isolated area has been created to include Lynchburg and surrounding territory. The extended area roughly comprises the eastern third of the state. It includes 16 of the 28 first-record infestations discovered in the state this year. Also included are recurring infestations where beetles had increased. Including this area under quarantine will permit more intensive suppressive operations in other sections of the state with the funds available to the state for use in combatting the Japanese beetle. It is proposed to include this same area in the federally-regulated zone.

Other contemplated quarantine extensions involve the counties of Preston and Tucker, and the nonregulated part of Mineral County in West Virginia and Garrett County, Maryland.

Soil treatment and foliage spraying have been intensified through increased facilities provided by the State of North Carolina. The cooperative suppressive program in that state together with carefully supervised enforcement of state quarantines placed on sections where there may be a hazard of artificial spread of the beetle through the movement of regulated articles warrant continuance of the present arrangement during 1949.

Measures taken or proposed by other states to combat and safeguard infestations detected during this year, together with prompt use of foliage sprays next season as may be required, justify continuance of the cooperative arrangements without any extension of the Federal quarantine.

The foregoing and the accompanying report are distributed for the information of those interested in, and concerned with, the Japanese beetle control program. It will be helpful in considering the "Notice of Rule Making" in reference to proposed changes in the regulations under the Federal Japanese Beetle Quarantine that will appear in the Federal Register in the near future.



Chief of Bureau

REPORT OF JAPANESE BEETLE SCOUT INSPECTION OUTSIDE  
FEDERAL REGULATED AREAS .. 1948

Scout inspection for the Japanese beetle outside areas under Federal quarantine regulation in 1948 was performed in 1,094 localities in 43 states. Much of the work was done in cooperation with state officials, other Bureau divisions, and military officials. Some scout inspection was carried on in all non-regulated states. These surveys included the scouting of 1,470 plant-growing establishments and environs in 24 states. Also included in the totals, are 138 airports scouted in 35 states. Approximately 44,000 traps were operated this season as compared with 37,000 in 1947. In 1947, scout inspection was conducted in a total of 666 localities in 38 states.

Beetle collections were made in 166 localities in 12 states. First record finds of a single beetle each were reported from 11 places in 4 states, and from two to numerous beetles in 41 localities in 6 states. Of the 166 localities where beetles were collected, 34 towns are within the proposed area to be added to the Federal regulated area and 16 towns to be placed under State regulations.

Finds of a single beetle each were reported on five airports; two beetles on one airport; and 15 on another.

Beetles were found on or near 19 plant-growing establishments in 5 states outside the Federal and State regulated areas. All of these establishments are under State quarantine agreements with Federal supervision.

DDT foliage treatments using Federal and state-owned mist blowers were applied in 59 localities in 6 states; most of the localities were given a second treatment. Soil treatments, with DDT or arsenate of lead, have been completed or are proposed for application to a larger acreage than in 1947. This will include work in 7 states outside the regulated areas, covering approximately 1,110 acres; 1,050 acres have been treated.

West of the Mississippi River, scout inspection was carried on to some extent in all states. Ninety-one military and commercial airfields were trapped by the U. S. Air Force and state personnel. No beetles were found except in St. Louis where 54 were collected, and one at the St. Louis Airport (Lambert Field). DDT soil treatment was applied to 20 acres in St. Louis.

South of the Ohio and Potomac Rivers, 569 localities were scouted including 32 airports and 962 plant-growing establishments. In this area, numerous beetles were found at several locations in North Carolina and Virginia. Other collections were made in Georgia, Tennessee and West Virginia. Discussions of the situations at these localities follow:

Georgia. In Atlanta, 22 beetles were found. In Dahlonega, 587 beetles were collected. DDT foliage treatments were applied twice in these areas during the flight of the beetle. Four beetles were found in Austell and one each at the Atlanta and Savannah (Hunter Field) airports. DDT foliage treatments will be applied again in 1949 in Atlanta and Dahlonega.

North Carolina. Beetles were collected in 42 localities throughout the state. Large numbers of beetles were collected again this season in the Asheville-Hendersonville and the Mt. Olive-Calypso areas. Numerous beetles were discovered this year in Beaufort County for the first time. This is a grain and potato growing area. Nine first-records were reported, mostly within the areas known to have beetles. DDT foliage treatments were applied with the mist blowers in the above areas and will be repeated in 1949. It is planned to soil-treat with DDT, approximately 475 acres in 12 localities this fall.

The State regulated areas with local Federal supervision have been increased to include the Mt. Olive-Calypso section, part of Beaufort County, and the area between Greensboro and Winston-Salem, covering Archdale, High Point and Thomasville.

Tennessee. Two beetles were collected in Tennessee this season; one in Knoxville, on the college grounds, and one at the Memphis Airport.

Virginia. From one to numerous beetles were collected in Virginia from the present Federal regulated area south to the North Carolina line. Large numbers of beetles were collected in Lynchburg and the Staunton-Waynesboro area. Other significant finds were in Bedford and Victoria. Twenty-eight first-record finds were discovered; over half of these will be included in the proposed addition to the regulated area. DDT foliage treatments were applied with Federal and State-owned mist blowers to 19 locations. No soil treatments are planned for this fall. The state quarantine has been modified to include all the area in the eastern part of state. This will permit strengthening the suppressive program in other sections during 1949. Foliage sprays will be applied in 1949 in all areas where beetles are known to be present outside the regulated area.

West Virginia. Many beetles were collected and observed in a nursery in Parsons, Tucker County, and 8 on a nursery in Huntington. Movement of regulated articles from these establishments is regulated under State authority. Scouts reported the presence of beetles in scattered localities in the north-eastern section of the state. It is proposed to extend the Federal regulated area to include all of Preston and Tucker Counties and the nonregulated part of Mineral County.

In all of the above states and those east of the Mississippi River, plant-growing establishments were scouted for the Japanese beetle and the white-fringed beetle by crews from both projects. White-fringed beetle crews scouted the southern section and the Japanese beetle crews in the northern section of this area for both beetles.



Japanese beetles were collected on 10 establishments in Virginia and West Virginia outside the Federal and State regulated areas. These are operating under State quarantine agreements. In 1949, it is planned to intensify and extend the scouting of plant-growing establishments.

Maryland. In Garrett County scattered beetles were reported by scouts in four towns, and the State of Maryland reported 124 beetles collected in traps in 6 towns. This county will be added to the Federal regulated area.

In the mid-West, beetles were collected in Illinois, Indiana, Michigan and Ohio.

Illinois. Eighty-six beetles were collected in Chicago and 7 in Highland Park. The Highland Park collection is a reduction from 122 beetles in 1947. DDT soil treatment has been applied to 59 acres in Chicago.

Indiana. In 7 localities from 1 to 17 beetles were collected. One of these was a plant-growing establishment in Gary where 4 beetles were found. This establishment is operating under a State quarantine agreement and plans to treat the entire nursery with DDT. It is proposed to apply DDT soil treatment in Richmond next spring.

Michigan. From 1 to 96 beetles were collected in 7 localities. Two of these were first-record finds; one beetle in Owosso and 44 in Grosse Pointe Village. DDT soil treatment has been completed in Grand Rapids, Grosse Pointe Village, Kalamazoo, Owosso, and arsenate of lead soil treatment in Detroit, covering a total of 264 acres. DDT foliage treatment was applied in Detroit where many beetles were collected last season. Beetle collections in Detroit this year were reduced from more than 3,000 in 1947 to less than 100 this year.

Ohio. In three localities, Belpre, Gallipolis, and Loudonville, beetle collections increased materially over last year. Collections of from 1 to 28 beetles were made in 20 other localities. Three first-record finds were in Chardon with 2 beetles, Fairfield (Patterson Field) 2 beetles, and McConnellsville with one beetle. From 1 to 10 beetles were collected in three separate units of the Cincinnati Park System. These beetles were found late in August, and intensive scouting is planned for the Cincinnati area in 1949. Two nurseries, one city-owned, just north of the City of Cincinnati, were found to have large numbers of beetles. A total of 8 beetles was found on four nurseries in nonregulated area near Painesville. All of these establishments are operating under State agreements to comply with the safeguards prescribed in Federal quarantine regulations. DDT soil treatment was applied to a total of 80 acres in the nurseries, environs and parks in Cincinnati. DDT soil treatment was also applied to 40 acres in Perry and Painesville.

State-owned mist blowers were used to apply foliage treatments around all finds as they were reported by the scout crews. One ton of technical DDT was used for this purpose, applied at the rate of at least 1 lb. per acre. DDT dust treatment was applied in Lake County by airplane. It is planned to extend this area during the 1949 season.

Scout crews inspected plant-growing establishments in the above four states, but less intensively than in the southern area. More intensive scouting of plant-growing establishments is planned for 1949.

New York. Beetle collections were made in seven localities in the western part of the State and one locality in the northern section. Newark with 126, Geneva with 69, and Falconer with 53, received two DDT foliage treatments during the season and will be continued in 1949. Spring soil treatments are proposed for an estimated 40 acres in Niagara Falls where 46 beetles were trap collected. From 2 to 22 beetles were trapped in three localities where no control action is contemplated.

There were spotted beetle collections in Penfield Township, Monroe County, and 8 beetles were found on one small plant-growing establishment doing a local business. Even though this establishment sells only locally, it operates under a State quarantine agreement.

New England. The only beetles collected were at Bar Harbor, Maine where 25 were found on an estate. No treatments are proposed since this estate was treated with DDT last fall.



JAPANESE BEETLE SCOUT INSPECTION  
OUTSIDE PRESENT REGULATED AREA  
POSITIVE RESULTS  
1944 - 1948

Number of Japanese beetles collected:

\* First Record

0 Inspected Negative

- Not Inspected

N Numerous (over 500-no count taken)

S Scattered beetles (No count taken)

Tl Lead arsenate soil treatment

Td DDT soil treatment

t DDT foliage treatment

p Proposed soil treatment

<u>Locations</u>	<u>1948</u>	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>
<u>FLORIDA</u>					
Eglin Army Airfield	0	0	1	-	-
Jacksonville	-	-	0	0	5-Tl
Miami 36th St., Airport	-	4	3	0	-
West Palm Beach					
Morrison Field	-	1	0	0	-
<u>GEORGIA</u>					
Atlanta	22-t	26-t	17-t	13-Tl	17-Tl
Atlanta Airport	1	3	0	0	-
Augusta	0	-	3	1	9
Austell	4	1-t	2	1	-
Dahlonega	587-t	438-t	245-Tl, Td, t	37-Tl	-
East Point	0	0	-	0	3
Macon - Warner-Robins Field	0	1	0	-	-
Savannah - Hunter Field	1	1	0	1	-
Toccoa	-	-	0	1	17-Tl
<u>ILLINOIS</u>					
Chicago	86-Td	81-Td	165-Tl	164-Tl	708-Tl
Cicero	-	-	0	-	3
East St. Louis	-	-	0	1	2
Highland Park	7	122-Td	22-Tl	5	10
Lake Forest	-	1	1	-	-
Summit	0	1		-	-
<u>INDIANA</u>					
Elkhart	1	7-Tl	25-Tl	21-Tl	35-Tl
Fort Wayne	9	2	0	-	96-Tl
*Gary	4-Td	0	0	-	-
Hammond	3	5-Tl	1	0	54-Tl
Indianapolis	9-Td	11	13-Tl	3	20-Tl
Logansport	-	0	-	0	7-Tl
Muncie	-	-	0	-	1
Richmond	17-p	1	2	-	4-Tl
South Bend	2	-	-	0	-
Terre Haute	0	0	1	-	0
Whiting	-	0	1	1	-

	<u>1948</u>	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>
<u>IOWA</u>					
Fort Madison	-	0	1	-	-
<u>KANSAS</u>					
Kansas City	-	-	0	1	-
<u>LOUISIANA</u>					
New Orleans Airport	0	0	0	1	-
<u>MAINE</u>					
Bar Harbor	25	40-Td	0	-	-
<u>MICHIGAN</u>					
Dearborn	0	3-T1	-	0	2
Detroit	96-T1, t	3042-T1	12-T1	24-T1	95-T1
Ecorse	0	-	0	6	-
Flint	0	-	0	0	11-T1
Grand Rapids	58-Td	39-Td	92-T1	166-T1	-
Grosse Point Park	2	25-T1	-	-	-
*Grosse Point Village	44-Td	-	-	-	-
Kalamazoo	4-Td	4-Td	10-T1	63-T1	-
Melvindale	0	-	1-T1	1	0
Muskegon	-	0	1	7-T1	-
*Owosso	1-Td	-	-	-	-
River Rouge	23-t	10-T1, Td	15-T1	278-T1	42-T1
Wyandotte	-	0	1	-	-
<u>MISSOURI</u>					
Bridgeton, St.Louis Airport	1	0	1-T1	0	0
Kansas City Airport	-	0	0	0	1
St. Louis	54-Td	8-Td	51-T1, Td	7-T1	4-T1
<u>NEW YORK</u>					
Batavia	0	0	0	2	0
Bath	-	-	2	-	-
Canandaigua	0	0	0	-	4
Chestertown	-	-	0	-	2
Dunkirk	0	1	-	0	1
Fairport	0	3	-	54-T1	-
Falconer	53-t	144	93	10	-
Gardenville	0	0	0	1	-
Geneva	**69-t, Td	165	-	94-T1	197-T1
Hammondsport	-	-	2	-	-
Jamestown	**0-T1	14	-	7-T1	31
Lake George	-	-	0	-	1
Medina	0	0	-	0	2
Mexico	22	-	6	5	-
Newark	126-t	1496-Td	16-Td	-	7-T1
Niagara Falls	46-P	19	3	--T1	20
North Tonawanda	2	1	3	-	22
Ogdensburg	7	0	-	-	0
Penfield	S	10	-	-	-
Plattsburg	-	-	4	9	0
Port Henry	-	-	-	0	1
Rouses Point	-	-	4	-	-
Schroon Lake	-	-	0	-	2

\*\*Soil treatment applied spring 1948 as result of 1947 collections.

	<u>1948</u>	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>
<u>NEW YORK (cont'd)</u>					
Silver Creek	-	-	0	2	7
Spring Lake	-	-	0	-	1
Ticonderoga	-	-	-	0	2
Westfield	-	-	0	2	2
Williamson	0	0	17-Td	-	31-Td
<u>NORTH CAROLINA</u>					
Archdale	403	287-Td	38	6	-
Asheboro	-t	-	0	1	-
Asheville	N-t	N-t	N-t	N	N
Azalea	-	-	-	-	2
Black Mountain	-	0	-	0	3
Blowing Rock	N	N-Td,t	575	N	N
Boone	-	1	7	-	3
Burgaw	15	0-t	12	5	22-T1
Burlington	10	15	-	0	-
Calypso	N-t	N-t	929-Td	-	1
Candler	0	0	-	1	-
Canton	0	0	1	1	3
Charlotte	12	24-Td	4	3	-
Charlotte Airport	1	0	0	2	-
Clinton	282-Td	79-Td	18	-	5
Columbia	0	-	2	-	1
Dunn	N-Td	0	293-Td	-	222-T1
Durham	59-Td	75-Td	-	47-T1	-
East Flat Rock	N	0	9	-	2
East Spencer	-	-	-	32	11
Elizabeth City	18	7	4	-	72-T1
*Faison	19	-	-	-	-
Fayetteville	5	0	1	-	2
Flat Rock	-	-	-	-	1
Fletcher	-	-	10	-	-
Gastonia	35-Td	55-Td	4	-	60-T1
Greensboro	329-Td	55-Td	9	0	8
*Greenville	4	0	-	-	-
Hendersonville	N-t	N-t	--t	-	-
Hickory	0	6	0	-	2
High Point	N	780-Td	168-Td	-	26-T1
*Ingold	5	-	-	-	-
Kannapolis	0	-	0	1	-
Landis	-	0	0	3	-
Lenoir	3	8	1	-	4-T1
Lexington	0	0	0	-	2-T1
*Magnolia	9	0	-	-	-
Marshall	-	0	0	0	1
Mayodan	-	13	5	1	-
Mount Olive	119-t	N-t	51-Td	4	2
*New Bern	3	0	-	-	-
No. Wilkesboro	-	-	0	-	1
Old Fort	-	-	0	-	1

	<u>1948</u>	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>
<u>NORTH CAROLINA (cont'd)</u>					
Oteen	N	0	-	-	82
Raleigh	200-Td	52-Td	7	-	35-T1
Reidsville	28-Td	9	0	-	2
Rocky Mount	10	0	9	5-T1	-
*Rose Hill	158-p	0	-	-	-
Salisbury	234-Td	0	-	29-T1	88-T1
Spencer	-	0	-	41-T1	63-T1
Spruce Pine	-	-	0	-	6-T1
Swannanoa	-	-	-	1	-
Thomasville	88	14	3	-	-
*Turkey	2	-	-	-	-
*Wallace	13	-	-	-	-
Warsaw	2	0	3	-	10-T1
Washington	5	-	0	-	2
West Jefferson	63-Td	4	2	-	13
*Wilkinson Siding	N-t	-	-	-	-
Wilmington	63-Td	0	-	0	3
Wilmington Airport	15	0-t	22	-	-
Wilson	7	2	-	8-T1	3
Winston-Salem	141-p	76-Td	-	7-T1	-
<u>OHIO</u>					
Ashland	0	0	0	1	23-T1
Bellevue	13-t	2-t	-	84-T1	39-T1
Belpre	441-t	60-t	11	32	82-T1
Bucyrus	4-t	0	1	-	-
Caldwell	18-t	0	-	-	0
*Chardon	2-t	-	0	-	-
Chesapeake	-	0	-	1	-
Chillicothe	12-t	4-t	-	0	-
Cincinnati	N-t, Td	0	-	0	-
Cincinnati Airport	-	0	-	0	5-T1
Crestline	4-t	1-t	-	11-T1	27-T1
Elyria	13-t	1-t	-	8-T1	7-T1
*Fairfield - Patterson Fld.	2-t	0	0	-	-
Fostoria	-	0	0	-	1
Gallipolis	N-t	14-t	-	40-T1	12-T1
Geneva	27-t	10-t	7	54-T1	8-T1
Hamilton	1-t	0	2	1	-
Kinsman	-	0	1	-	-
Lima	0	1-t	-	-	0
Lorain	0-t	0	-	2-T1	9-T1
Loudonville	169-t	12-t	-	3-T1	-
Marion	0-t	1-t	-	0	17-T1
Maumee	0	0	1	-	-
*McConnelsville	1-t	-	-	-	-
Millersburg	28-t	-	-	0	-
Mt. Vernon	14-t	1-t	-	0	-
New Concord	20-t	0	-	26-T1	30-T1
Painesville	6-t, Td	33-Td	32-Td	11-T1	7-T1
Perry	0-t, Td	5-Td	-	-	-

	<u>1948</u>	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>
<u>OHIO (cont'd)</u>					
Rockbridge	-	-	0	-	1
Sandusky	1-t	-	-	-	0
Sharon Twp. Franklin Co.	-	10-Td	-	-	-
Shelby	-	-	0	-	1
So. Zanesville	20-t	0	-	4-T1	4
Springfield	1-t	-	0	1	-
Van Wert	0	-	-	0	1-T1
Wellington	0	-	0	-	1
Willard	17-t	0	-	5-T1	3-T1
Zanesville	0-t	0	-	0	1
<u>SOUTH CAROLINA</u>					
Charleston Airport	0	0	1	3	-
Chesnee	-	1-t	-	-	-
Columbia	0	-	0	1	-
Florence	0	-	0	-	2
Greenville	-	-	6	25	47
Greenville AAB	0	1-t	6	-	-
<u>TENNESSEE</u>					
Bristol	0	-	0	-	1-T1
*Knoxville	1	-	0	-	0
Memphis Airport	1	-	0	2	-
Mountain City	-	0	2	-	6-T1
Nashville Airport	0	1	1	-	-
<u>VERMONT</u>					
Barre	-	-	-	1	-
Richmond	-	-	-	-	1
<u>VIRGINIA</u>					
Altavista	N-t	826-t	-	9-T1	-
Amherst	18-t	6-t	2	-	-
*Appomattox	6	-	-	-	-
Ashland	257-t	15	17	9	-
Barboursville	145-t	0	2	-	-
*Beaver Dam	1	-	-	-	-
Bedford	263-t	18-t	2	1	-
Berryville	N	16	-	0	-
Blackstone	1	-	-	0	-
Bowling Green	115-t	5	2	-	-
*Boyce	N	-	-	-	-
Bridgewater	-	-	0	1	-
Bristol	0	-	0	-	2
Broadway	-	0	8	-	-
*Cartersville	1	-	-	-	-
*Chase City	1	-	0	-	-
Clifton Forge	-t	105-t	-	16-T1	-
Covington	-t	571-t	--T1	83-T1	-
*Crewe	16-t	-	-	0	-
Crozet	5-t	--t	9-T1, Td	-	-
*Crozier	48	-	-	-	-

	<u>1948</u>	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>
<u>VIRGINIA (cont'd)</u>					
Dayton	-	8	2	4	-
*Edinburg	4	-	-	0	-
*Elkton	7	-	-	0	-
*Ellerson	49	0	-	-	-
*Farmville	2	-	-	0	-
Franklin	26	0	0	-	-
Galax	0	-	0	1	-
*Gaylord	N	-	-	-	-
*Gloucester	1	-	-	-	-
*Glade Springs	39	-	-	-	-
*Gretna	1	-	-	0	-
Harrisonburg	54-t	0	8	2	11
*Heathsville	N	-	-	-	-
Hopewell	510	0	-	1	-
Independence	-	1	0	-	-
*Louisa	1	-	-	-	-
Lovingston	0-t	89-t	5	-	-
Luray	7	-	-	-	0
Lynchburg	N	8-t	0	15	5
Madison	-	0	10	-	-
*Manakin	48	-	-	-	-
Marion	0	-	2	-	-
*Messick	44	-	-	-	-
Milford	16	-	0	-	-
*Montross	69	-	-	-	-
Mount Jackson	-	1	-	0	-
New Market	1	0	-	-	0
*Panorama	1	-	-	-	-
Rocky Mount	-	3	1	2	-
*Ruckersville	12	-	-	-	-
*Saluda	16	-	-	-	-
*Scottsville	5	-	-	-	-
Smithfield	44	1	-	-	-
South Hill	2	0	0	-	-
Staunton	143-t	-	-	-	0
Stephen City	15	-	-	0	-
*Stony Creek	1	-	-	-	-
Strasburg	11-t	-	-	0	-
*Tappahannock	6	-	0	-	-
*Toano	5	-	-	-	-
Unionville	-	0	3	-	-
*Victoria	119-t	-	-	-	-
Warsaw	0	-	0	2	-
Waverly	41	1	-	-	-
Waynesboro	222-t	1	-	-	0-T1
Williamsburg	16	3	0	-	3
Woodstock	17-t	0	-	-	0-T1
Wytheville	0	13-t	-	4-T1	-
Yorktown	18	6	4	-	-

	<u>1948</u>	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>
<u>WEST VIRGINIA</u>					
Central Twp., Suddridge Co.	S	3	-	-	-
*Davis	S	-	-	-	-
Elkins	S	-	12	-	-
Gassaway	-	-	10	3	-
*Green Spring	S	-	-	-	-
Huntington	8	36	0	5	-
*Kingwood	S	-	-	-	-
*Newbury	S	-	-	-	-
*Okonoko	N	-	-	-	-
*Parsons	N	-	-	-	-
Pennsboro	-	-	1	-	-
Petersburg	S	-	23	-	-
Romney	S	-	6	-	-
St. Marys	-	-	2	-	-
*Thomas	S	-	-	-	-
*Three Churches	S	-	-	-	-

DDT or lead arsenate soil treatments have been applied to 1,050 acres in 26 localities in 7 States, and approximately 60 acres are proposed for treatment during the spring of 1949. Foliage treatment with DDT was applied to approximately 10,000 acres in 57 localities in 6 States during the flight of the adult Japanese beetles.



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